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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,507	07/08/2005	Takushi Yoshida	P/1250-293	2987
	7590 08/04/200 FABER GERB & SOF	EXAMINER		
1180 AVENUE OF THE AMERICAS			MACARTHUR, SYLVIA	
NEW YORK, NY 100368403			ART UNIT	PAPER NUMBER
			1792	
			MAIL DATE	DELIVERY MODE
			08/04/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Comments	10/541,507	YOSHIDA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Sylvia R. MacArthur	1792			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 5/8/20	009				
·= · · · · · · · · · · · · · · · · · ·	action is non-final.				
·=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
ologod in accordance with the practice and in	x parte gadyle, 1000 0.D. 11, 10	0.0.210.			
Disposition of Claims					
<ul> <li>4) Claim(s) 40-78 is/are pending in the application.</li> <li>4a) Of the above claim(s) 51-56 and 68-78 is/are withdrawn from consideration.</li> <li>5) Claim(s) is/are allowed.</li> <li>6) Claim(s) 40-50 and 57-67 is/are rejected.</li> <li>7) Claim(s) is/are objected to.</li> <li>8) Claim(s) are subject to restriction and/or election requirement.</li> </ul>					
Application Papers					
9) ☐ The specification is objected to by the Examiner.  10) ☑ The drawing(s) filed on 25 December 2003 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application  Other:					

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### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

## Response to Arguments

- 1. Applicant's arguments with respect to claims 40-50 and 57-67 have been considered and have warranted the withdrawal of the prior art rejections as it is noted that both Sato and Kenji et al fail to teach or fairly suggest an abnormality detection part configured to detect a processing abnormality in the substrate processing apparatus based on a combination of plurality of control elements collected by the collection part and to detect a processing abnormality based on the detection.
- 2. It is noted that applicant recited that a Terminal Disclaimer was presented along with the response of May 8, 2009, however no such response has been found. Thus, the double patenting rejections have been maintained.

### **Double Patenting**

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned

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with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Claims 40 -50 and 57-67 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-20 of US 6,807,455 in view of Konishi et al US 6,145,519. Although the conflicting claims are not identical, they are not patentably distinct from each other because the co-pending application claims a substrate process apparatus, a computer (information processor), a collection part (receiving part), and an abnormality detection part (computing part). Note that patent does teach a plurality of correction amounts are detected and that a combination is detected see abstract and drawing. The patent fails to teach the specifics about the processing units, such as that the substrate is rotated and the processing steps performed therein.

The prior art of Konishi et al teaches a substrate processing unit wherein a semiconductor substrate is cleaned. Konishi et al teaches the use of rotator 3 see Figs. for examples Figs. 1a, 4c, and 5. Konishi et al also provides a teaching of using a recovery unit to recycle/circulation treatment solution. According to col. 7 lines 50-63, the concentration (specific gravity) is monitored. HF is cited as a treatment fluid and water see co. 8 lines 58 and the abstract. The treatment solution flow rate is another control element taught by Konishi et al see col.6 liens 36-62. Regarding claims that recite the type of fluid discharged and the specific fluid are interpreted as matters of an intended use as the apparatus of the co-pending application and modified by using the processing units and monitoring the control elements taught by Konishi is not structurally limit by the type of fluid used. The motivation to modify the apparatus claimed by the co-pending application with Konishi et al is that rotation of the substrate helps to ensure a

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more uniform distribution of treatment fluid and monitoring the specific control elements of solution concentration, flow rate and discharge time will ensure that the process is perform automatically in an accurate reproducible manner. The motivation to provide a circulation system is that recycling/recovery of the treatment is conventional and known to allow for conservation of treatment fluids and save process costs as "fresh" treatment solution is unnecessary for each process run. Thus, it would have been obvious for one of ordinary skill in the art at the time of the claimed invention to modify the apparatus claimed by the co-pending application with Konishi et al.

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

# Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sylvia R. MacArthur whose telephone number is 571-272-1438. The examiner can normally be reached on M-Th during the hours of 8 a.m. and 4:30 p.m.

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7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571-272-1435. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

August 1, 2009

/Sylvia R MacArthur/ Primary Examiner, Art Unit 1792